Fig. 1

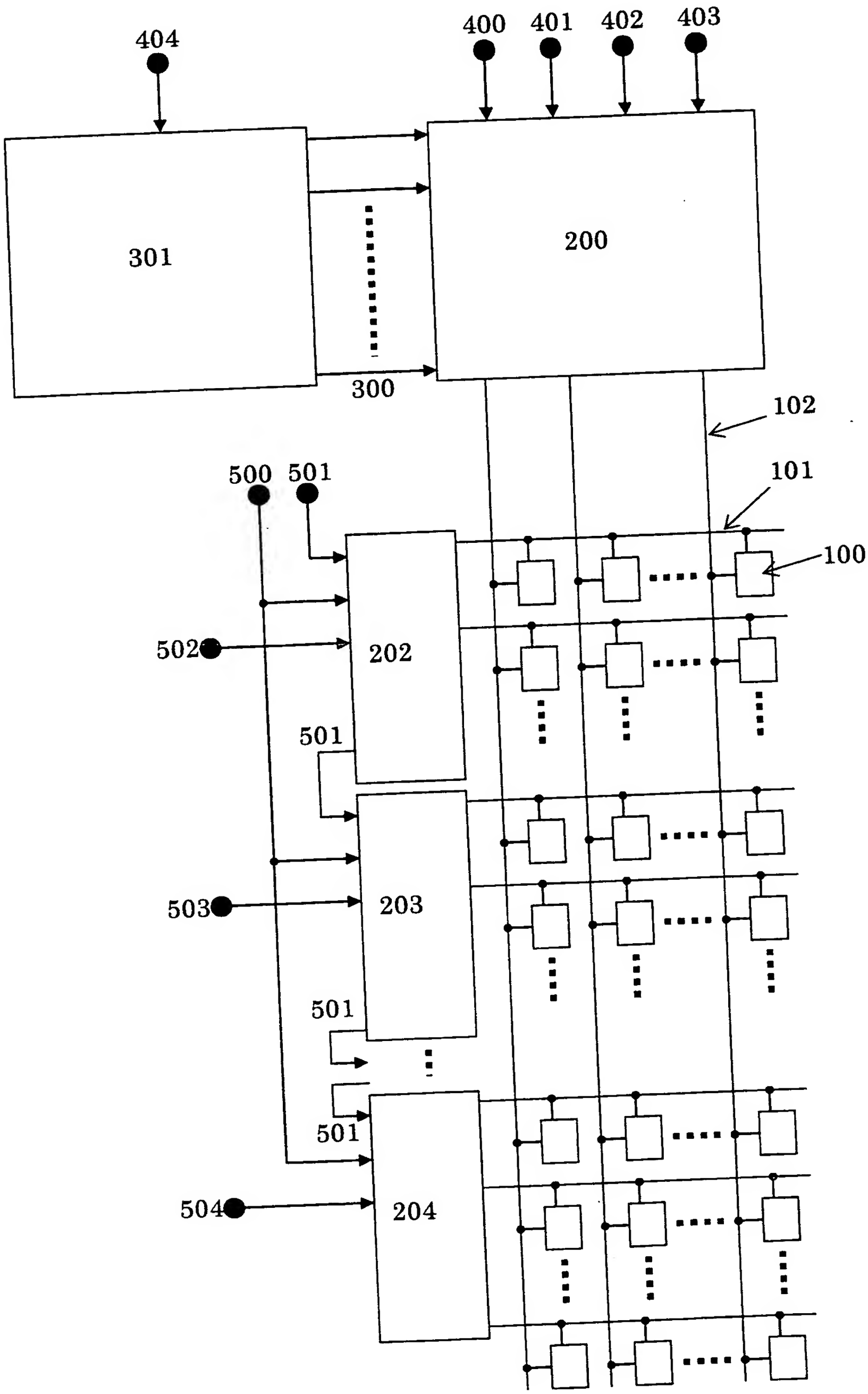

404
400
401
402
403
301
200
300
102
101
100
500
501
502
202
501
503
203
501
501
504
204

Fig.2

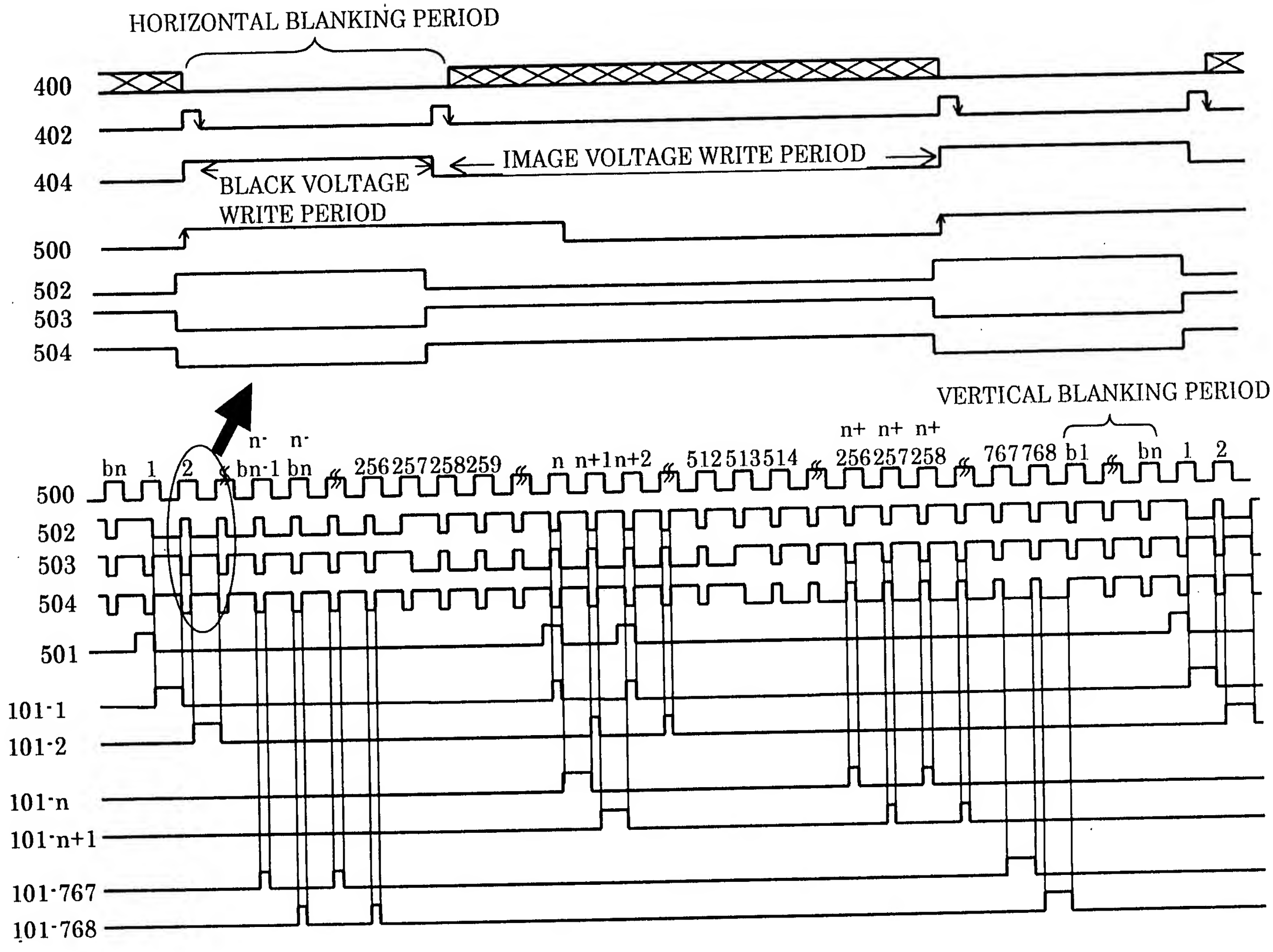

HORIZONTAL BLANKING PERIOD
400
402
404
IMAGE VOLTAGE WRITE PERIOD
BLACK VOLTAGE
WRITE PERIOD
500
502
503
504
VERTICAL BLANKING PERIOD
n- n-
n+ n+ n+
bn 1 2 bn-1 bn 256257258259 n n+1n+2 512513514 256257258 767768 b1 bn 1 2
500
502
503
504
501
101-1
101-2
101-n
101-n+1
101-767
101-768

Fig.3

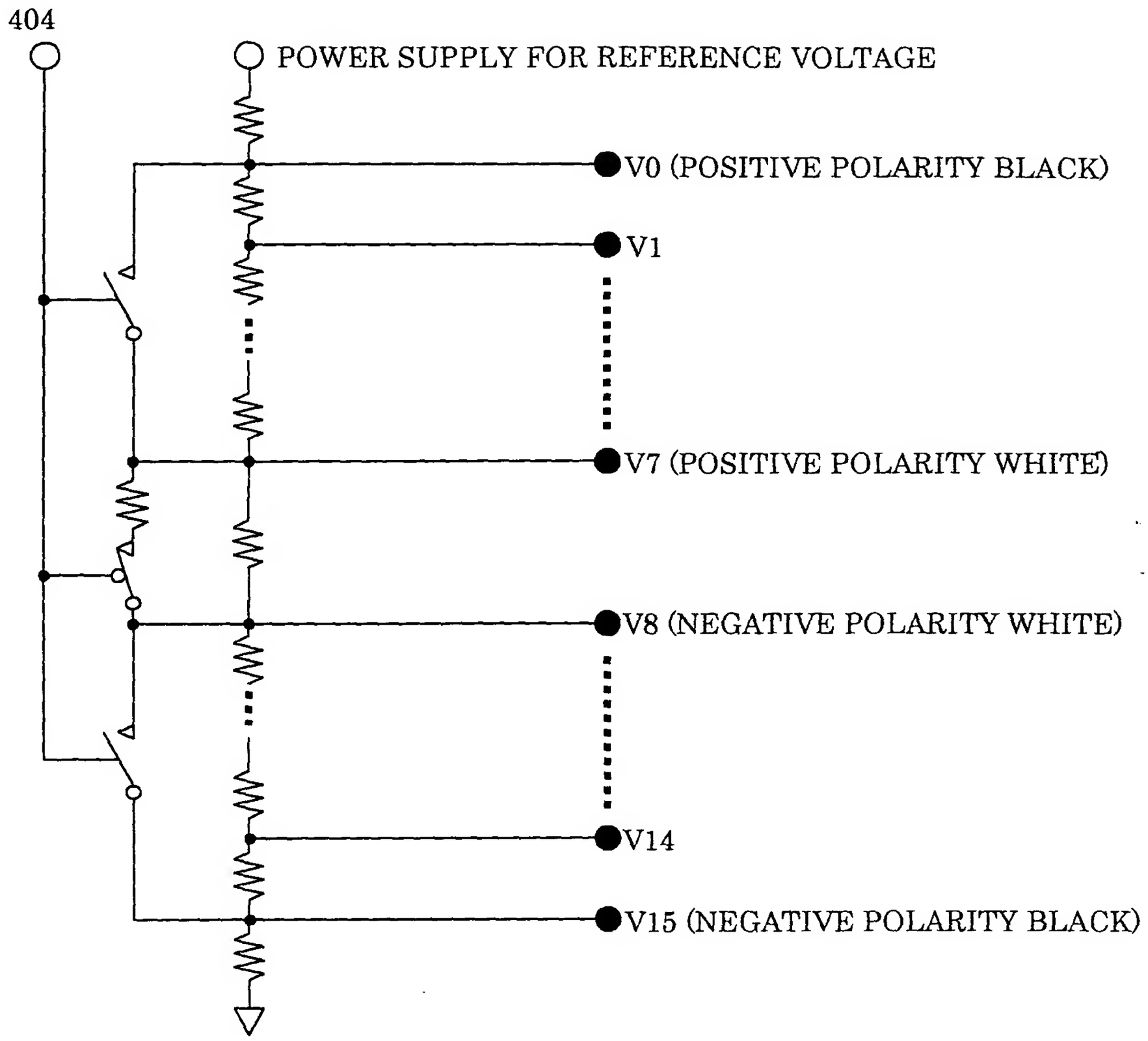

404
POWER SUPPLY FOR REFERENCE VOLTAGE
V0 (POSITIVE POLARITY BLACK)
V1
V7 (POSITIVE POLARITY WHITE)
V8 (NEGATIVE POLARITY WHITE)
V14
V15 (NEGATIVE POLARITY BLACK)

Fig.4

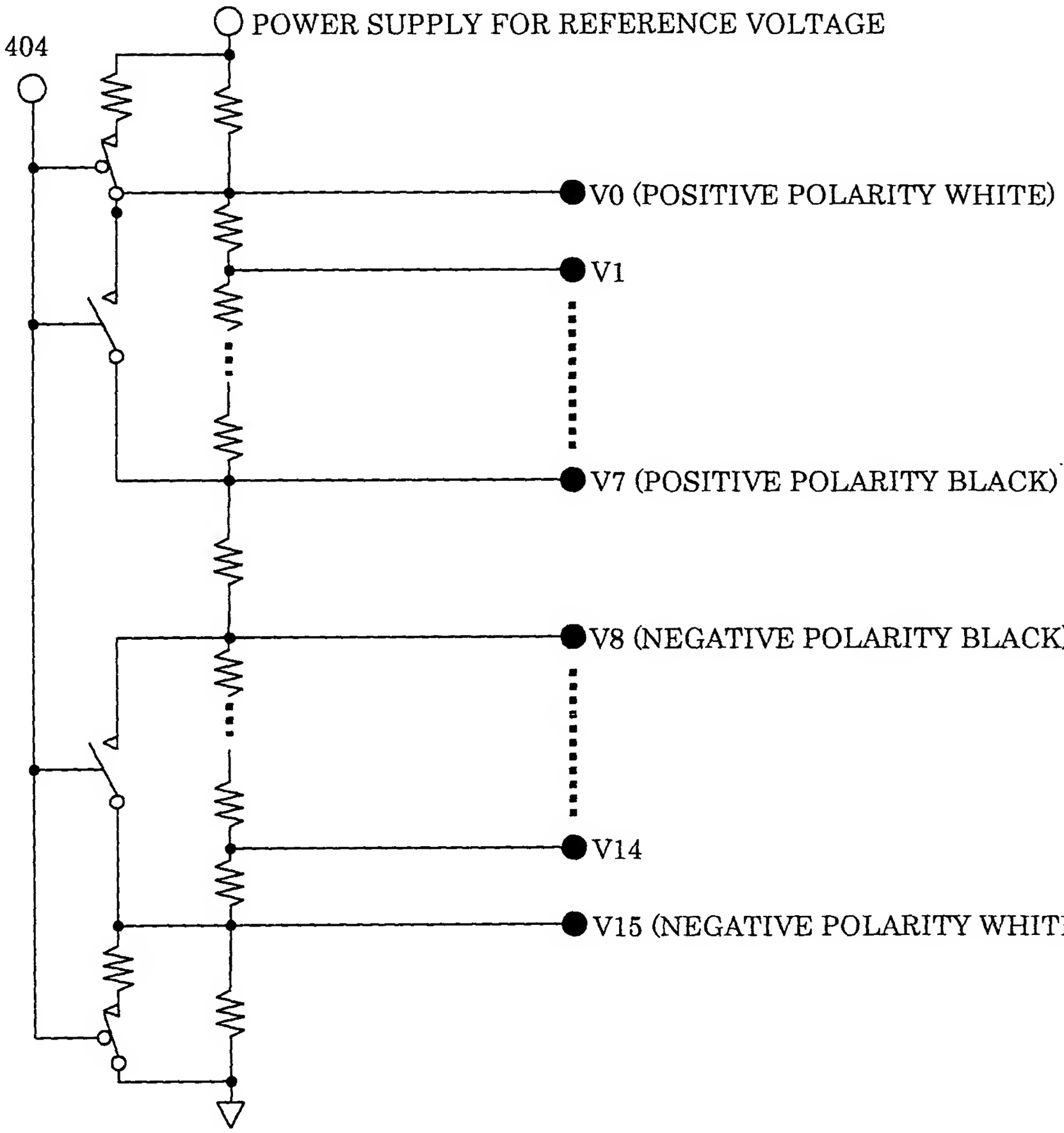

POWER SUPPLY FOR REFERENCE VOLTAGE
404
V0 (POSITIVE POLARITY WHITE)
V1
V7 (POSITIVE POLARITY BLACK)
V8 (NEGATIVE POLARITY BLACK)
V14
V15 (NEGATIVE POLARITY WHITE)

Fig.5

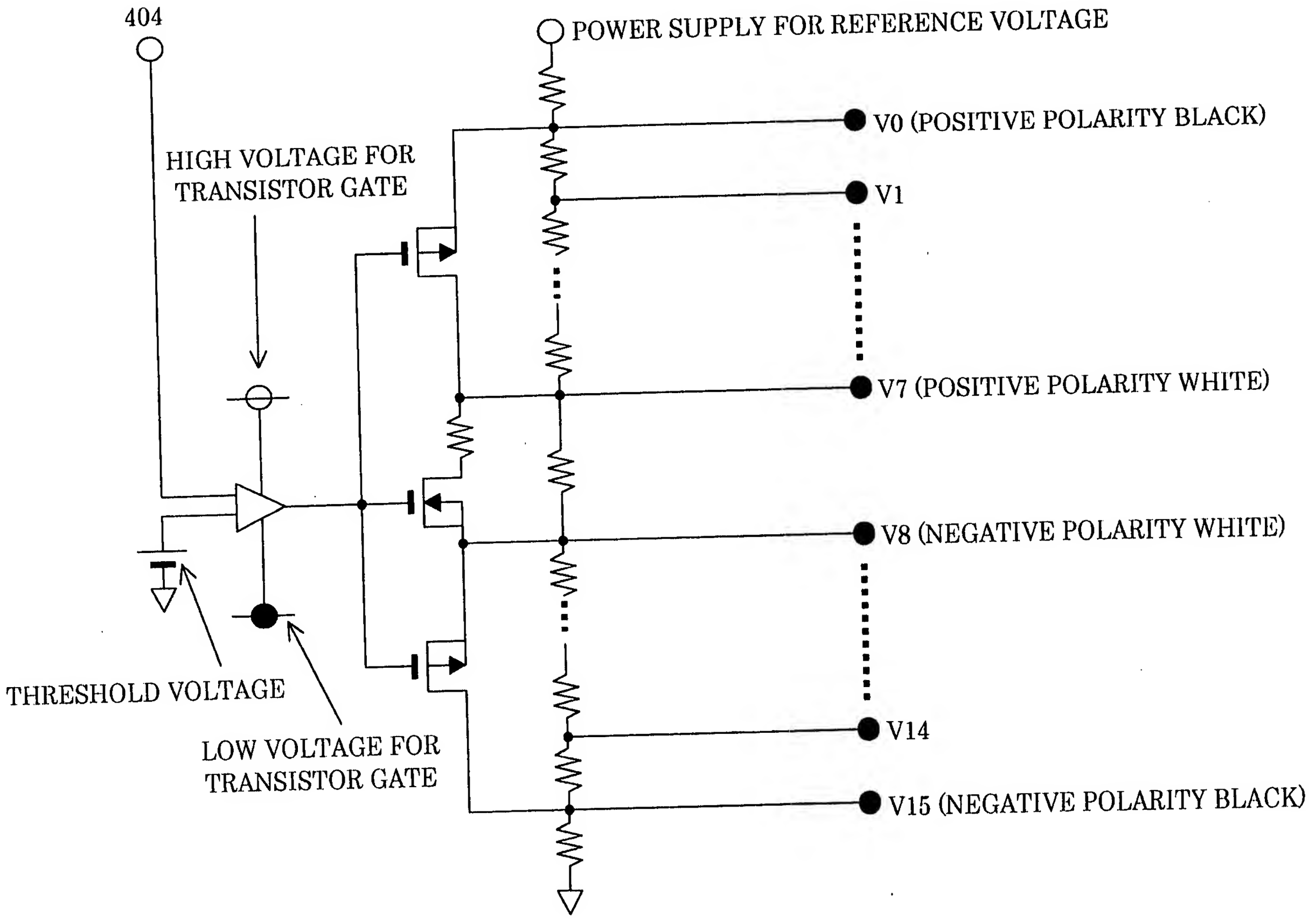

404
POWER SUPPLY FOR REFERENCE VOLTAGE
HIGH VOLTAGE FOR TRANSISTOR GATE
V0 (POSITIVE POLARITY BLACK)
V1
V7 (POSITIVE POLARITY WHITE)
V8 (NEGATIVE POLARITY WHITE)
V14
V15 (NEGATIVE POLARITY BLACK)
THRESHOLD VOLTAGE
LOW VOLTAGE FOR TRANSISTOR GATE

Fig.6

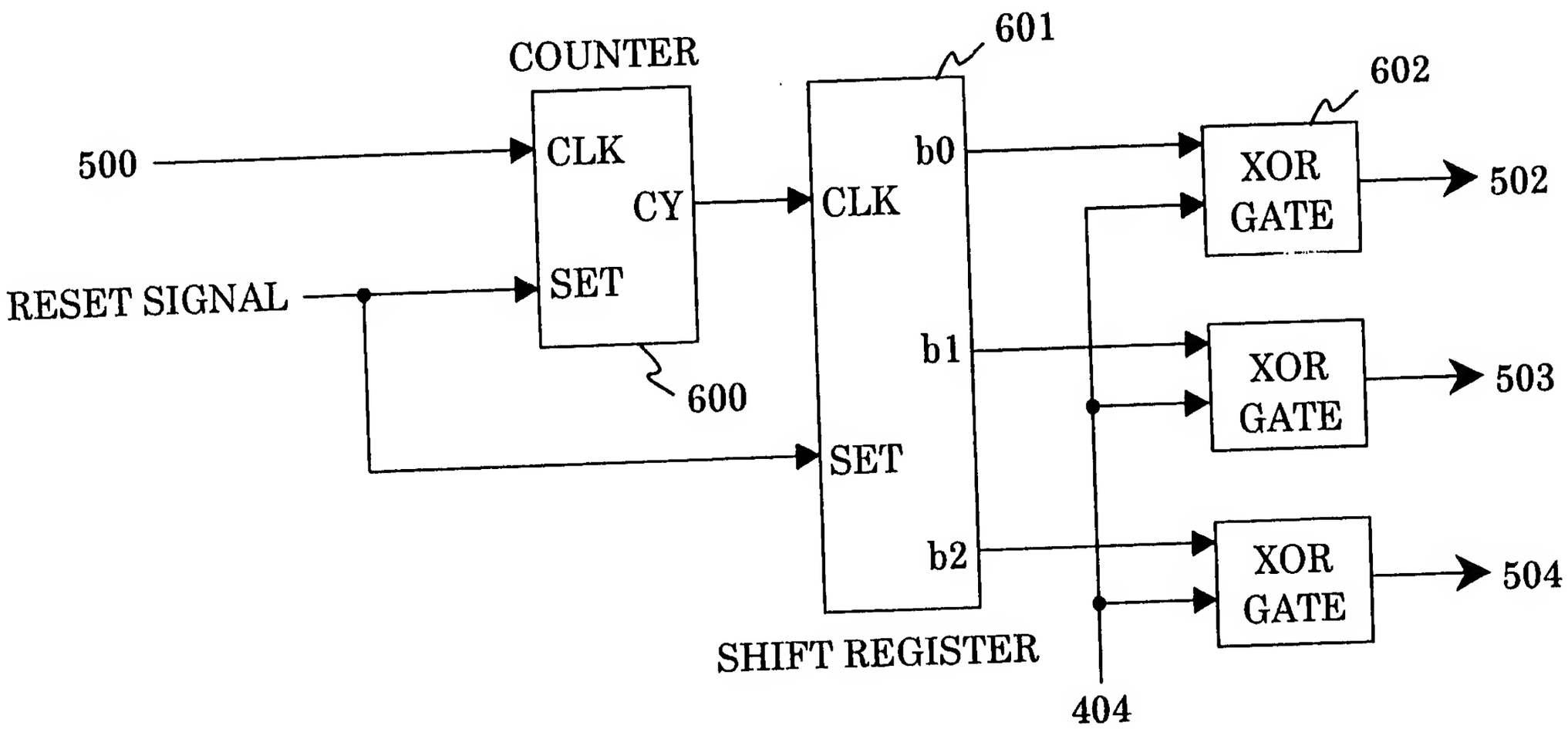
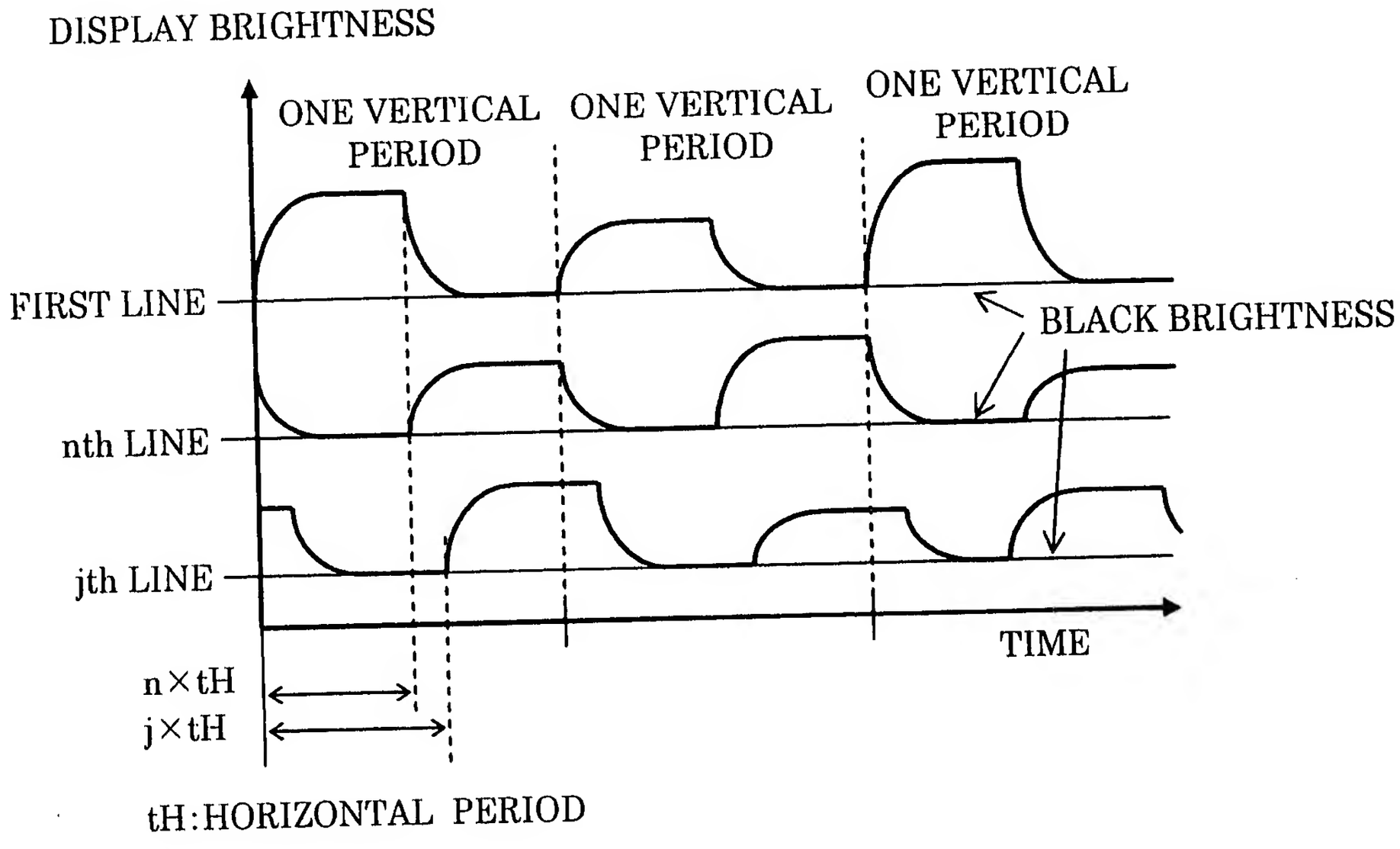

COUNTER
601
602
500
CLK
CY
SET
RESET SIGNAL
600
CLK
b0
b1
b2
SET
XOR GATE
XOR GATE
XOR GATE
502
503
504
SHIFT REGISTER
404

Fig. 7



tH:HORIZONTAL PERIOD

Fig. 8

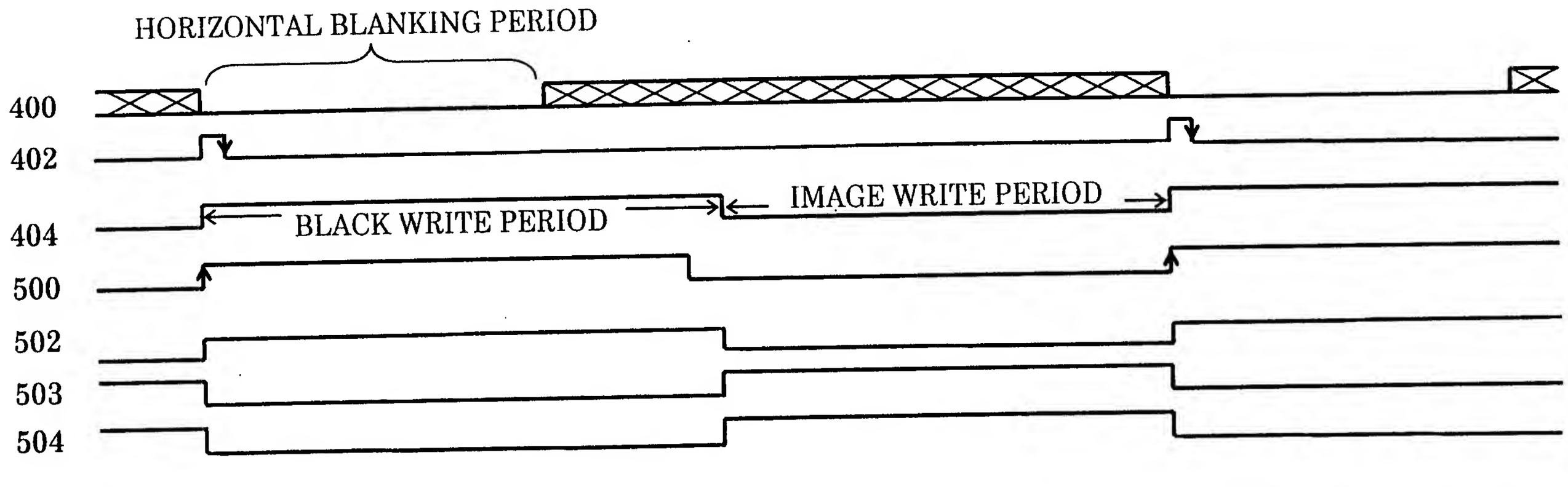

HORIZONTAL BLANKING PERIOD
400
402
404
500
502
503
504
BLACK WRITE PERIOD
IMAGE WRITE PERIOD

Fig.9

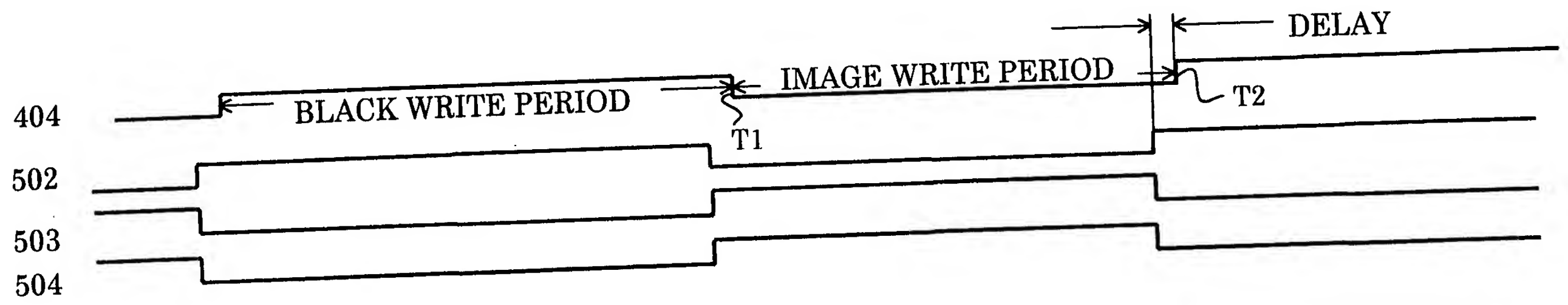

DELAY
IMAGE WRITE PERIOD
BLACK WRITE PERIOD
T2
T1
404
502
503
504

Fig.10

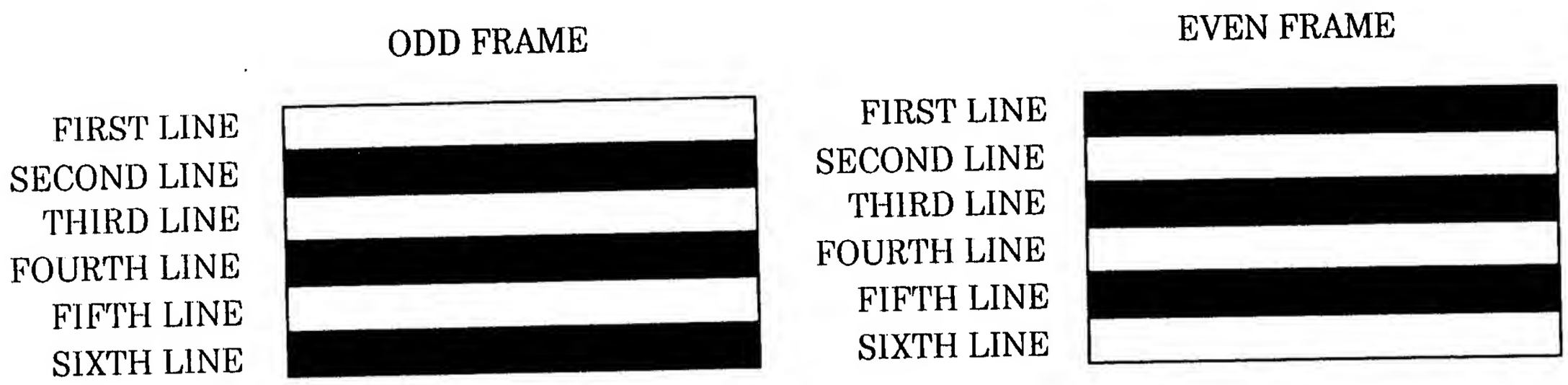

ODD FRAME
FIRST LINE
SECOND LINE
THIRD LINE
FOURTH LINE
FIFTH LINE
SIXTH LINE
EVEN FRAME
FIRST LINE
SECOND LINE
THIRD LINE
FOURTH LINE
FIFTH LINE
SIXTH LINE

Fig.11

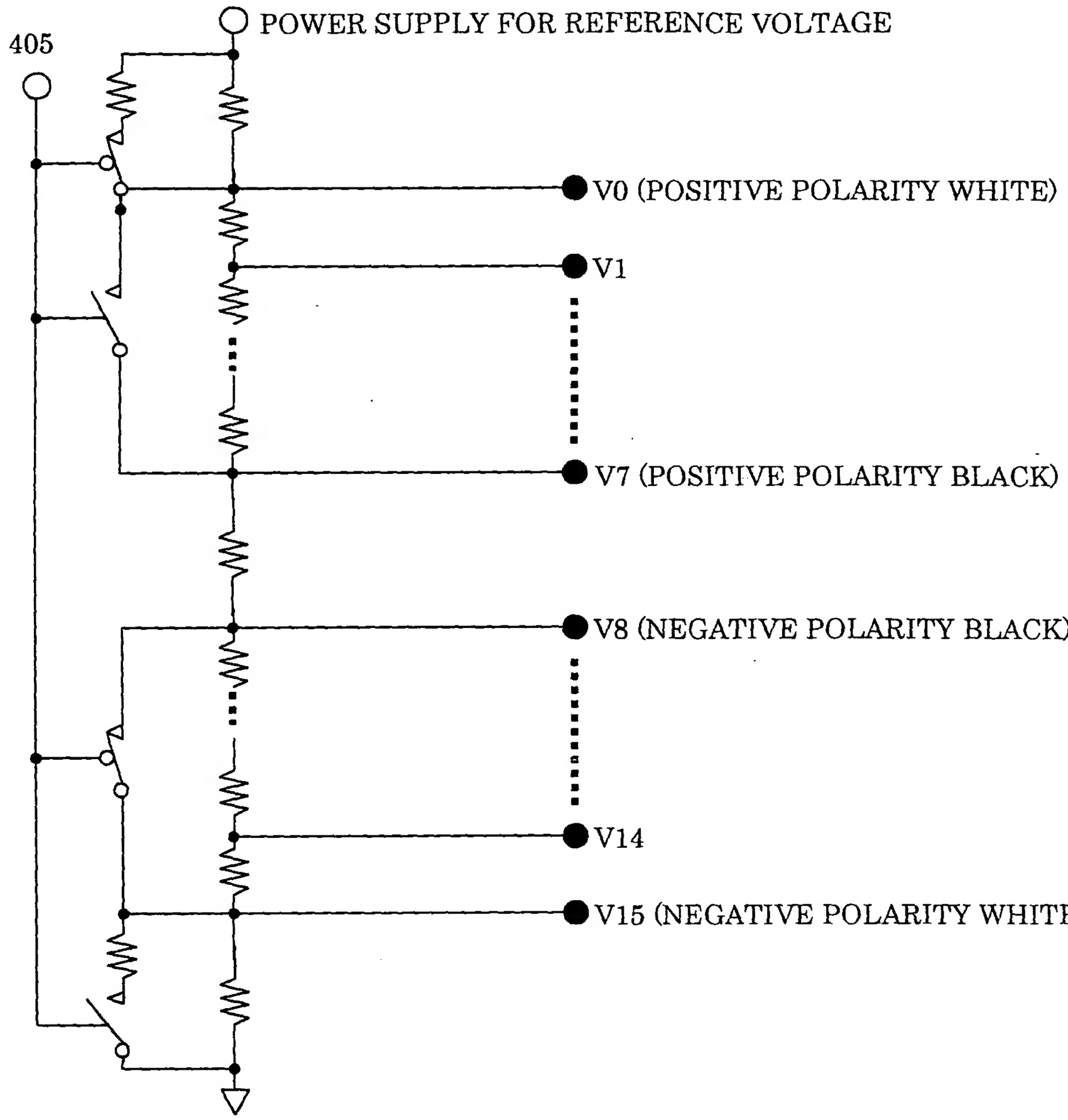
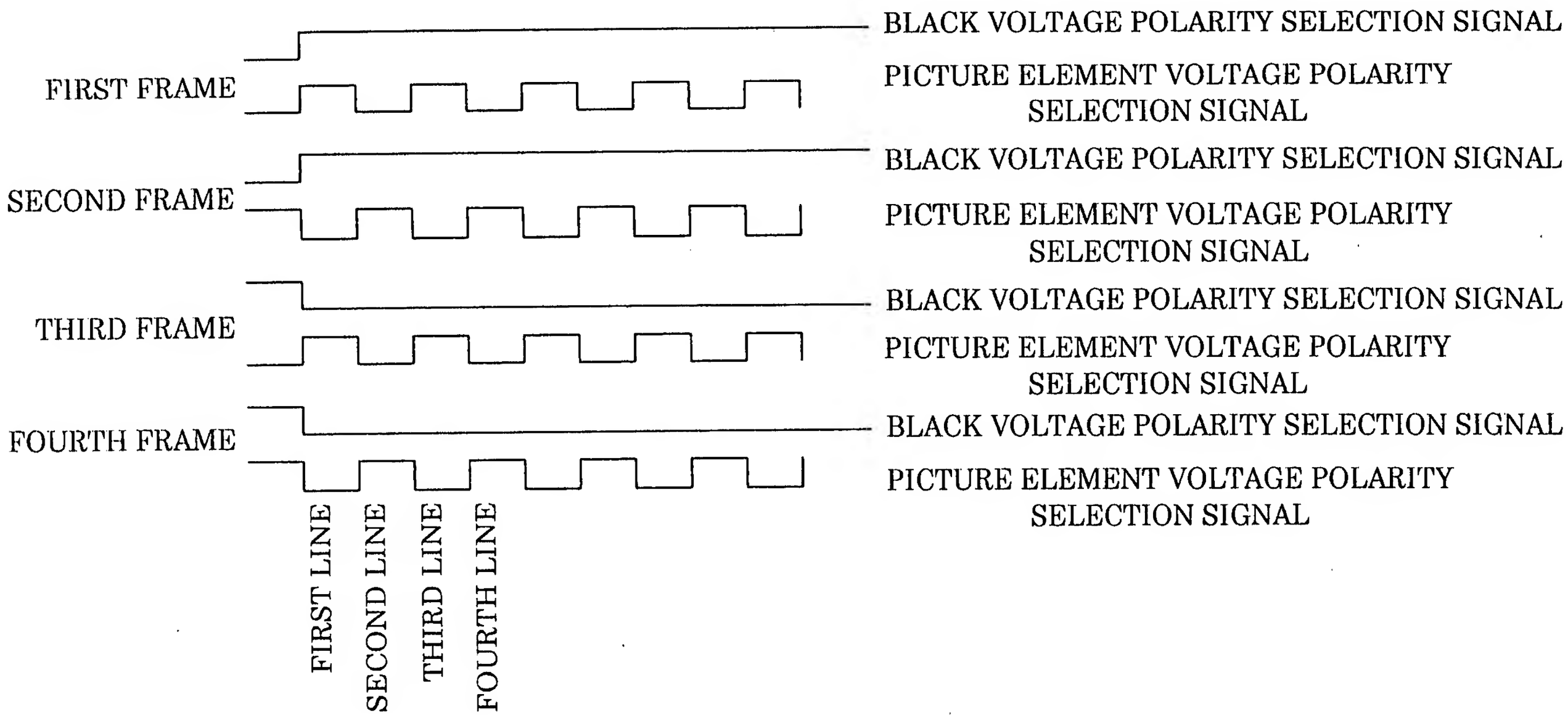

POWER SUPPLY FOR REFERENCE VOLTAGE
405
V0 (POSITIVE POLARITY WHITE)
V1
V7 (POSITIVE POLARITY BLACK)
V8 (NEGATIVE POLARITY BLACK)
V14
V15 (NEGATIVE POLARITY WHITE)

Fig.12


BLACK VOLTAGE POLARITY SELECTION SIGNAL
FIRST FRAME
PICTURE ELEMENT VOLTAGE POLARITY SELECTION SIGNAL
BLACK VOLTAGE POLARITY SELECTION SIGNAL
SECOND FRAME
PICTURE ELEMENT VOLTAGE POLARITY SELECTION SIGNAL
BLACK VOLTAGE POLARITY SELECTION SIGNAL
THIRD FRAME
PICTURE ELEMENT VOLTAGE POLARITY SELECTION SIGNAL
FOURTH FRAME
BLACK VOLTAGE POLARITY SELECTION SIGNAL
PICTURE ELEMENT VOLTAGE POLARITY SELECTION SIGNAL
FIRST LINE
SECOND LINE
THIRD LINE
FOURTH LINE